

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1003	(heater with electrode with thick\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/11/04 10:02
L2	82920	"347"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/11/04 10:02
L3	189	1 and 2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/11/04 10:02
L4	0	(heater with electrode with thick\$4) same (spac\$3 gap void)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/11/04 10:04
L5	23	(heater with electrode with thick\$4) and (spac\$3 gap void)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/11/04 10:04
L6	0	2 and 5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/11/04 10:04
S1	2	"20040100533"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 11:39
S2	1	2004-447824.NRAN.	DERWENT	OR	ON	2006/03/22 11:16
S3	2	"6755509".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 11:39
S4	5	("4965594" "5534898" "5706041" "5841452" "6543879").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/22 11:40
S5	34	("4965594").URPN.	USPAT	OR	ON	2006/03/22 11:45
S6	20	S5 and electrode	USPAT	OR	ON	2006/03/22 11:47
S7	10	S5 and (electrode.clm.)	USPAT	OR	ON	2006/03/22 11:48
S8	4	(US-20040100533-\$).did. or (US-6755509-\$ or US-4965594-\$ or US-6974210-\$).did.	US-PGPUB; USPAT	OR	ON	2006/03/22 14:17
S9	2	(electrode near4 layer) and S8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 14:20

S10	12	("6543879" "4965594" "5534898" "5706041" "5841452" "4827294").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 15:20
S11	1	((electrode and heater) near4 layer) and S10	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 14:45
S12	2	(electrode near4 layer) and S10	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 14:20
S13	12	("4251824" "4330787" "4345262" "4376945" "4450457" "4459600" "4536250" "4567493" "4577202" "4596994" "4613844" "4723129").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/22 14:35
S14	41519	"347"/\$.cccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/22 14:35
S15	2657	silverbrook.in.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/22 14:35
S16	1609	S14 and S15	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/22 14:35
S17	30	((heater and electrode) near3 layer) and (cantilever and (nanojoule "nj") and (nozzle with density) and thickness and nanograms)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 14:38
S18	30	S16 and S17	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 14:37
S19	43	((heater and electrode) near3 layer) and (cantilever near3 beam)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 14:39
S20	29	S14 and S19	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 14:39
S21	4	("5719604" "5812163" "5988799" "6130689").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/22 14:43
S22	1	"6312112".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/22 14:43
S23	0	S10 and "titanium nitride"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 15:28
S24	858	S14 and "titanium nitride"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 14:45
S25	76	((electrode and heater) near4 layer) and S24	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 14:46

S26	13	("20030042046" "20030087484" "20030089597" "20040113988" "4335389" "4596994" "4663640" "4956653" "4965611" "5448273" "5682188" "6441838" "6450622").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/22 14:51
S27	2	"20040113986"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 15:15
S28	0	" and 10500 nanojoules"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 15:15
S29	65	"500 nanojoules" and S14	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 15:16
S30	0	S29 not silverbrook.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 15:17
S31	113	((joule and ((actuation firing) near3 energy)) and S14	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 15:17
S32	17	S31 not silverbrook.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 15:17
S33	3	("5030971" "5638101" "6234598").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/22 15:19
S34	0	S10 and joule	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 15:20
S35	0	S10 and \$4joule	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 15:20
S36	0	("6543879" "4965594" "5534898" "5706041" "5841452" "4827294").pn. and joule	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 15:21
S37	311310	S10 and titanium nitride	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 15:28
S38	3	S10 and (titanium nitride)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/22 15:29
S39	6	("5706041" "6543879" "4965594").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/23 08:43

S40	2	"5841452".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/23 09:58
S41	2	"4774530".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/24 11:11
S42	2	"6692108".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/24 12:33
S43	2	"6692108".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/24 14:23
S44	0	"support the ejectable liquid" and S43	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/24 14:23
S45	0	"support the ejectable" and S43	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/24 14:23
S46	0	"the ejectable liquid" and S43	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/24 14:23
S47	4182833	support the ejectable liquid and S43	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/24 14:24
S48	2	(support the ejectable liquid) and S43	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/24 14:24
S49	12	(US-20040100533-\$.).did. or (US-6692108-\$ or US-6755509-\$ or US-4965594-\$ or US-6543879-\$ or US-5841452-\$ or US-5706041-\$ or US-6974210-\$ or US-5719604-\$ or US-6450622-\$ or US-6441838-\$ or US-6234598-\$.).did.	US-PGPUB; USPAT	OR	ON	2007/08/09 13:17
S50	11	S49 and thickness	US-PGPUB; USPAT	OR	ON	2007/08/09 14:35
S51	967	347/56.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/09 15:23
S52	6259	(electrode same heater) same "same" same (material composition element)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/09 15:24
S53	43	S51 and S52	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/09 15:24

S54	350638	connected near4 pair	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/09 14:37
S55	13	(US-20020054191-\$ or US-20040100533-\$).did. or (US-6234598-\$ or US-6692108-\$ or US-6974210-\$ or US-4965594-\$ or US-6441838-\$ or US-5719604-\$ or US-5706041-\$ or US-6450622-\$ or US-5841452-\$ or US-6543879-\$ or US-6755509-\$).did.	US-PGPUB; USPAT	OR	ON	2008/01/09 14:37
S56	1	S54 and S55	US-PGPUB; USPAT	OR	ON	2008/01/09 14:38
S57	8	pair and S55	US-PGPUB; USPAT	OR	ON	2008/01/09 16:17
S58	0	("4914562596900560194576775509").PN.	USPAT	OR	OFF	2008/01/09 16:17
S59	4	(("4914562") or ("5969005") or ("6019457") or ("6775509")).PN.	USPAT	OR	OFF	2008/01/09 16:17
S60	26	(nozzle heater electrode layer material first second surround\$3).clm.	US-PGPUB; USPAT	AND	ON	2009/03/09 12:56
S61	5	("4513298" "4847630" "5760804" "5841452" "6019457").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/09 13:10

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